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UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/848,428	05/04/2001	Juhnyoung Lee	YOR9-2001-0218US1	7813

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EXAMINER
OYEBISI, OJO O

ART UNIT	PAPER NUMBER
3628	

DATE MAILED: 09/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
Office Action Summary	09/848,428	LEE ET AL.
	Examiner	Art Unit	
	OJO O. OYEBISI	3628	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *28 April 2005*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-20* is/are pending in the application.

     4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-20* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *04 May 2001* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

     a)☐ All   b)☐ Some * c)☐ None of:

         1.☐ Certified copies of the priority documents have been received.

         2.☐ Certified copies of the priority documents have been received in Application No. _____.

         3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

     * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
     Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
     Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

U.S. Patent and Trademark Office

PTOL-326 (Rev. 7-05)   Office Action Summary   Part of Paper No./Mail Date 09092005

DETAILED ACTION

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by
another filed in the United States before the invention by the applicant for patent or (2) a patent
granted on an application for patent by another filed in the United States before the invention by the
applicant for patent, except that an international application filed under the treaty defined in section
351(a) shall have the effects for purposes of this subsection of an application filed in the United States
only if the international application designated the United States and was published under Article 21(2)
of such treaty in the English language.

2.   Claims 1-6, 9-13, 15-20 are rejected under 35 U.S.C. 102(e) as being anticipated

by Carlton-Foss (Foss hereinafter, U.S PAT: 6,647,373).

Re claim 1. Foss discloses a computer system for ranking one or more objects

having two or more attributes (i.e., dimensions, col.13, lines 40-45) comprising:

one or more central processing units (CPUs) and one or more memories and one

or more network interface to one or more networks associated with the CPUs;

one or more visual interfaces which receives one or more objects having two or

more attributes, and visually presents the one or more objects (see fig.1 and

fig.2); one or more weight generator modules which receives the one or more

objects having two or more attributes and one or more objects ranked by one or

more users, and computes one or more weights of one or more attributes of the

objects; and one or more multi-criteria decision analysis module which receives

the one or more objects having two or more attributes and one or more weights

of one or more attributes of objects and computes one or more scores of the one

or more objects (see fig.5 and fig.11)(see abstract, summary of the invention).

Re claim 2. Foss further discloses the system as stated supra wherein at least

one of the one or more objects having two or more attributes include a sell bid

used in online trading based on one or more Request-For-Quote (RFQ)

processes in marketplaces (see col.1, lines 19-26, also see fig.4a, 1st paragraph).

Re claim 3. Foss further discloses the system as stated supra wherein the one or

more attribute is a pair of name and value, and is grouped into categories

including product specification, service specification and supplier qualification

(see col.3, lines 15-37).

Re claim 4. Foss further discloses the system as stated supra wherein the

product specification includes attributes such as price, material quality and

properties (see col.8, lines 6-9), color and size (i.e., a picture of the product) (see

col.6, lines 15-25, also col.12, lines 15-22).

Re claim 5. Foss further discloses the system as stated supra wherein the

service specification includes delivery time and cost, and warranty (see col.12,

lines 1-25, also see fig.14).

Re claim 6. Foss further discloses the system as stated supra the supplier

qualification includes trading history, experience and reputation (i.e.,

organizational information, see fig.7, lines 35-67).

Re claim 9. Foss further discloses the system as stated supra wherein the visual

interface allows one or more user to manually specify the ranks of the one or

more objects having two or more attributes displayed in the visual interface (see col.6, lines 10-25, col.12, lines 20-60).

Re claim 10. Foss further discloses the system as stated supra wherein the visual interface presents a view of the one or more objects having two or more attributes along with the one or more scores of individual objects of the one or more objects (see fig.1, fig.11, also see fig. 14).

Re claim 11. Foss further discloses the system as stated supra wherein the visual interface presents a view of one or more objects having two or more attributes along with one or more scores of individual objects of the one or more objects and one or more weights of one or more attributes of objects (see col.6, lines 10-25, fig.1, fig.11, also see fig. 14).

Re claim 12. Foss further discloses the system as stated supra wherein the score of the object having two or more attributes is a linear combination of one or more weighted attribute values of the object (see fig.11, also see col.12, lines 60-65).

Re claim 13. Foss further discloses the system as stated supra wherein the weight generator process computes one or more weights of one or more attributes of the object by using a score inequality specified by two or more ranks (i.e., MaxWeightedEval, WeightedEval, CostPoints) of one or more objects given by one or more users (col.12, lines 25-65 through col.13, lines1-15).

Re claim 15. Foss discloses a method of ranking one or more objects having two or more attributes comprising the steps of: receiving one or more objects having two or more attributes (see abstract); specifying a number and members of the

selected objects (i.e., quantity and product, see fig.12a); displaying one or more

views of the selected objects in one or more visual interfaces (see col.6, lines 15-

25); providing one or more ranks of the selected objects displayed in the one or

more visual interfaces (see fig.11); computing one or more weights of one or

more attributes of the objects by using one or more ranks specified for the

selected objects (col.12, lines 25-65 through col.13, lines1-15).; computing one

or more scores of one or more objects having two or more attributes by using the

computed weights of one or more attributes of objects (see fig.11); displaying

one or more views of the one or more objects having two or more attributes with

one or more scores for individual objects in the one or more visual interfaces;

and displaying one or more weights of the one or more attributes of the objects in

the one or more visual interfaces (see col.6, lines 10-25, fig.1, fig.11, also see fig.

14).

Re claim 16. Foss further discloses a method as stated supra, further comprising

the step of examining (i.e., review) the one or more scores (i.e., ratings) of one or

more objects having two or more attributes for decision-making in selecting one

or more objects having one or more high scores (see col.6, lines 55-67).

Re claim 17. Foss further discloses a method as stated supra, further comprising

the step of examining the one or more weights of one or more attributes of

objects for inspecting the accuracy of one or more weights of one or more

attributes computed by one or more weight generator processes (see col.8, lines

14-19, also see col.12, lines 53-57).

Re claim 18. Foss further discloses a method as stated supra, further comprising the step of changing a size and members of the selected objects (i.e., modify their request and bids, col.5, lines 25-30) having two or more attributes, and also changing one or more ranks of the selected objects (see col.6, lines 30-50; col.8, lines 19-22; col.10, lines 10-12).

Re claim 19. Since claim 19 further comprising repeating the steps of claim 15, and since Foss teaches all the steps recited in claim 15, thus claim 19 is rejected using the same art and rationale in the rejection of claim 15.

Re claim 20. Claim 20 recites similar limitations to claim 15, and thus rejected using the same art and rationale in the rejection of claim 15.

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4.   Claims 7-8, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Foss.

Re claim 7. Foss further discloses the system as stated supra wherein the visual interface presents a view of the one or more objects having two or more attributes (see fig.1, also see col.6, lines 10-25). Foss does not explicitly disclose one or more parallel coordinates. However, parallel coordinates, an improvement over Cartesian coordinates is well known in coordinate geometry as a way to

represent multi-dimensional information. Thus, it would have been obvious to one

of ordinary skill in the art to represent one or more objects having two or more

attributes in parallel coordinates using the visual interface of Foss in order to

present a clearer view of the object and its attributes.

Re claim 8. Foss does not explicitly disclose the parallel coordinates presents an

attribute of an object by a parallel axis labeled by attribute name, and the object

having two or more attributes by a collection of line segments connecting

attribute value points located on the parallel axes representing attributes.

However, parallel coordinates, an improvement over Cartesian coordinates is

well known in coordinate geometry as a way to represent multi-dimensional

information. Thus, it would have been obvious to one of ordinary skill in the art to

represent one or more objects having two or more attributes in parallel

coordinates/axes using the visual interface of Foss in order to present a clearer

view of the object and its attributes.

Re claim 14. Foes does not explicitly disclose the system wherein: the score

inequality is provided

by:.SIGMA..sub.jw.sub.jf(a.sub.Aj)>.SIGMA..sub.jw.sub.jf(a.sub.Bj)>-

.SIGMA..sub.jw.sub.jf(a.sub.Cj); anda scoring function for calculating the scores

is a linear combination of the weighted values of the attributes provided

by:S.sub.i=.SIGMA..sub.jw.sub.jf(a.sub.ij), for all i,wherein the number of scores

can be any number larger than 1 and wherein S.sub.i denotes a score of object i,

w.sub.j a weight of the attributed j, a.sub.j a value of attribute j of object i, and f( )

a transformation of attribute value a.sub.j. However, Foss discloses that other

substantially equivalent formulas using the same or different computer statistics

and variables can be used by those skilled in the art to evaluate scores (i.e.,

rating/points). Further, in Mathematics, different methods/steps can be used to

solve a single equation. As long as the steps converge and yield the same

solution for the said single equation, that is what matters, the variables that

denote the events in the said single equation do not really matter. Thus, it would

have obvious to one of ordinary skill in the art to use the same or different

computer statistics and variables to facilitate an efficient way to evaluate the one

or more weight of one or more attributes of the object.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to OJO O. OYEBISI whose telephone number is (571)

272-8298. The examiner can normally be reached on 8:30A.M-5:30P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, HYUNG S. SOUGH can be reached on (571)272-6799. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

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